TUNG-SOL

PENTODE

MINIATURE TYPE

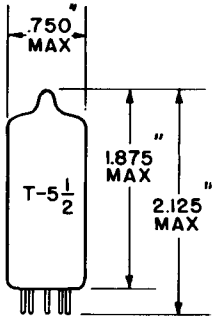
COATED UNIPOTENTIAL CATHODE

FOR

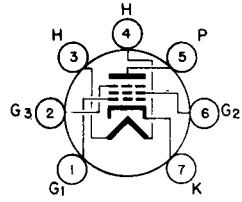
VOLTAGE AMPLIFIER

SERVICE IN T.V. APPLICATIONS

ANY MOUNTING POSITION



GLASS BULB
MINIATURE BUTTON
7 PIN BASE E7-1
OUTLINE DRAWING
JEDEC 5-2



BOTTOM VIEW

BASING DIAGRAM

JEDEC 7CC

THE 6AH6 IS A SHARP CUT-OFF VOLTAGE AMPLIFIER IN THE MINIATURE CONSTRUCTION. IT IS CHARACTERIZED BY A VERY HIGH TRANSCONDUCTANCE AND MODERATELY LOW INTERELECTRODE CAPACITANCES WHICH ADAPT IT TO WIDE BAND VIDEO AND INTERMEDIATE FREQUENCY AMPLIFIER SERVICE.

→ DIRECT INTERELECTRODE CAPACITANCES

EXTERNAL SHIELD #316 CONNECTED TO PIN 7

GRID TO PLATE: (G1 TO P)	0.020	pf
INPUT: G1 TO (H+K+G2+G3)	10	pf
OUTPUT: P TO (H+K+G2+G3)	3.6	pf

HEATER CHARACTERISTICS AND RATINGS

DESIGN CENTER VALUES - SEE EIA STANDARD RS-239

AVERAGE CHARACTERISTICS	6.3 VOLTS	450	MA.

MAXIMUM RATINGS

DESIGN CENTER VALUES - SEE EIA STANDARD RS-239

PLATE VOLTAGE	300	VOLTS
GRID #2 VOLTAGE	SEE RATING CHART	
PLATE DISSIPATION	3.2	WATTS
GRID #2 DISSIPATION	0.4	WATTS
CATHODE CURRENT	13	MA.
GRID #2 SUPPLY VOLTAGE	→ 300	VOLTS

→ INDICATES A CHANGE.

CONTINUED ON FOLLOWING PAGE

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TUNG-SOL

CONTINUED FROM PRECEDING PAGE

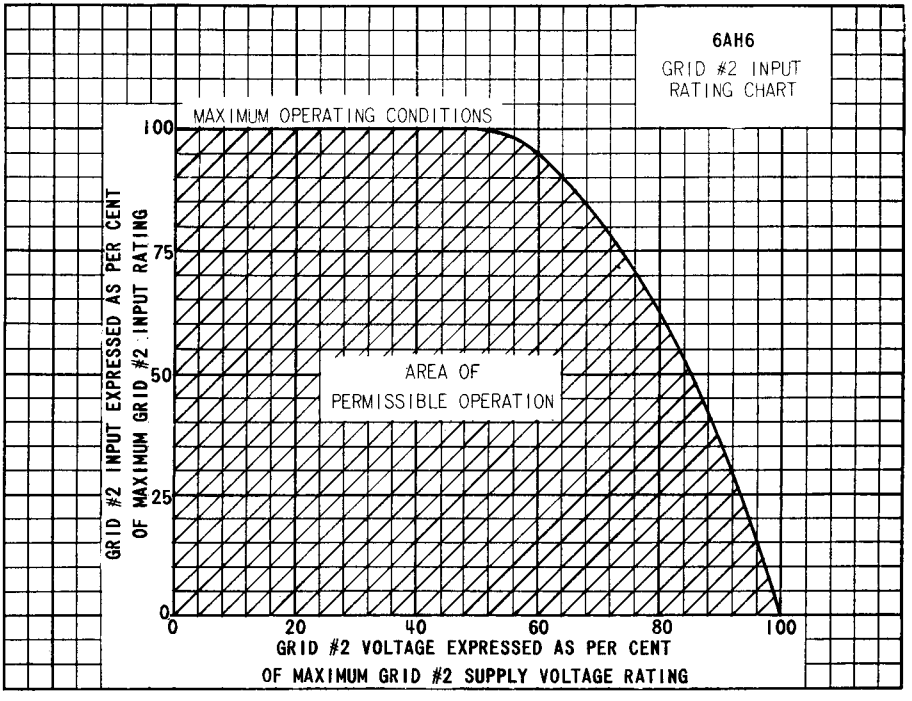
TYPICAL OPERATING CHARACTERISTICS

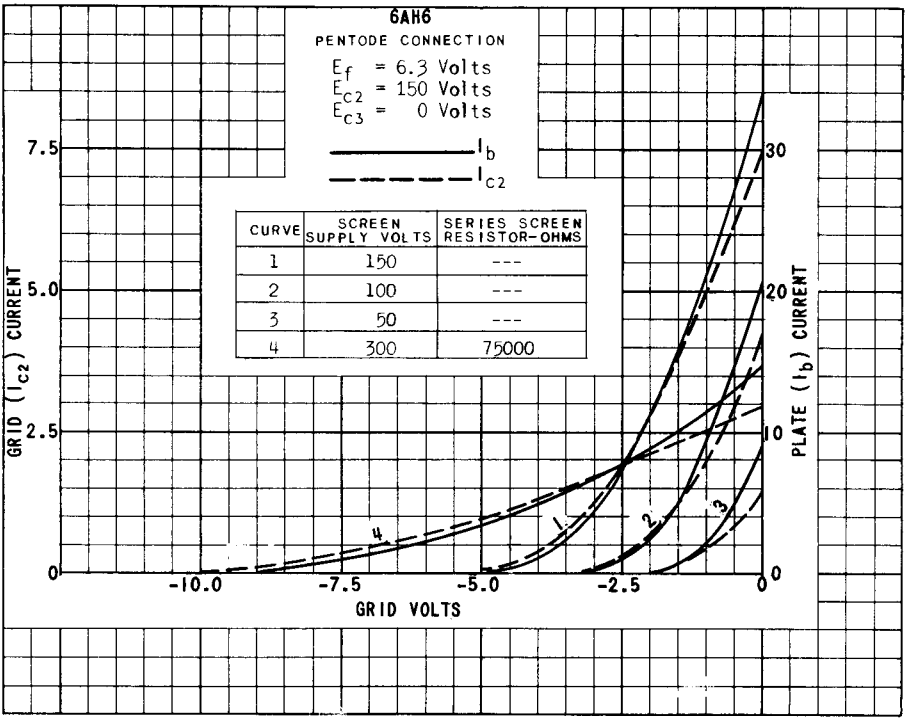
	PENTODE CONNECTED	TRIODE CONNECTED	
PLATE VOLTAGE	300	150	VOLTS
GRID #2 VOLTAGE	150	→ 150	VOLTS
GRID #3 VOLTAGE*	A	150	VOLTS
CATHODE RESISTOR	160	160	OHMS
PLATE RESISTANCE (APPROX.)	0.5	0.0036	MEGOHMS
TRANSCONDUCTANCE	9000	11000	μMHOS
TRANSCONDUCTANCE (GRID #3 TO PLATE)	B	---	
AMPLIFICATION FACTOR	---	40	
PLATE CURRENT	10	12.5	MA.
GRID #2 CURRENT	2.5	---	MA.
GRID #1 VOLTAGE (APPROX.) FOR Ib = 10 μA.	-7	-7	VOLTS

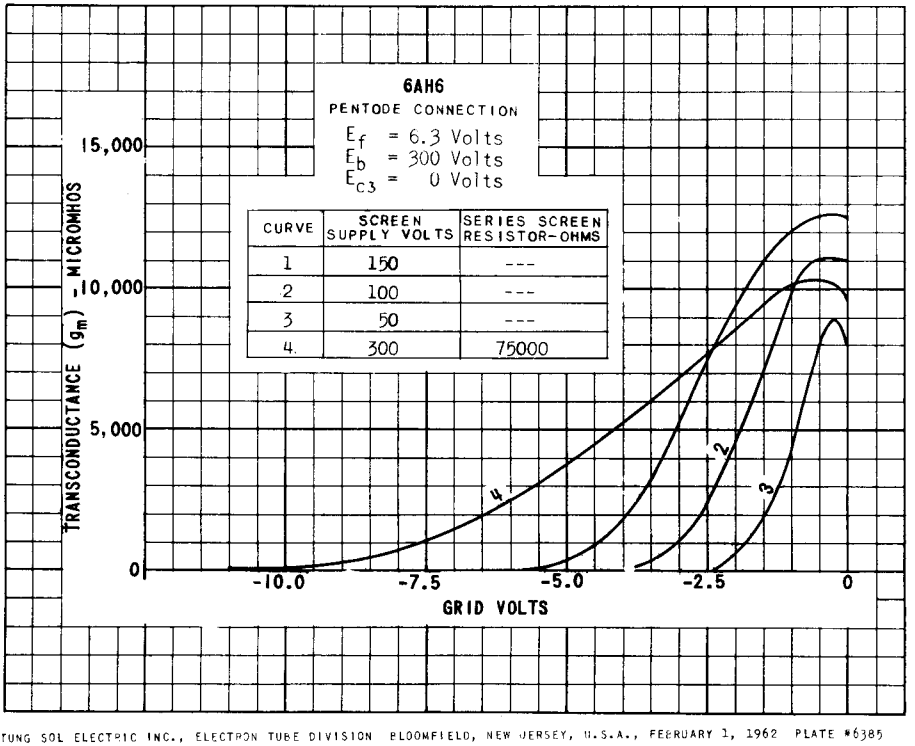
A
PIN #2 CONNECTED TO #7 AT SOCKET.

B
GRID #3 HAS PRACTICALLY NO CONTROL CHARACTERISTIC AND IT IS NOT INTENDED TO BE USED AS A CONTROL ELECTRODE. ITS TRANSCONDUCTANCE TO THE PLATE IS APPROXIMATELY 2 μMHOS AND THE MU IS 0.7 TO 1.0.

* INDICATES AN ADDITION.
→ INDICATES A CHANGE.







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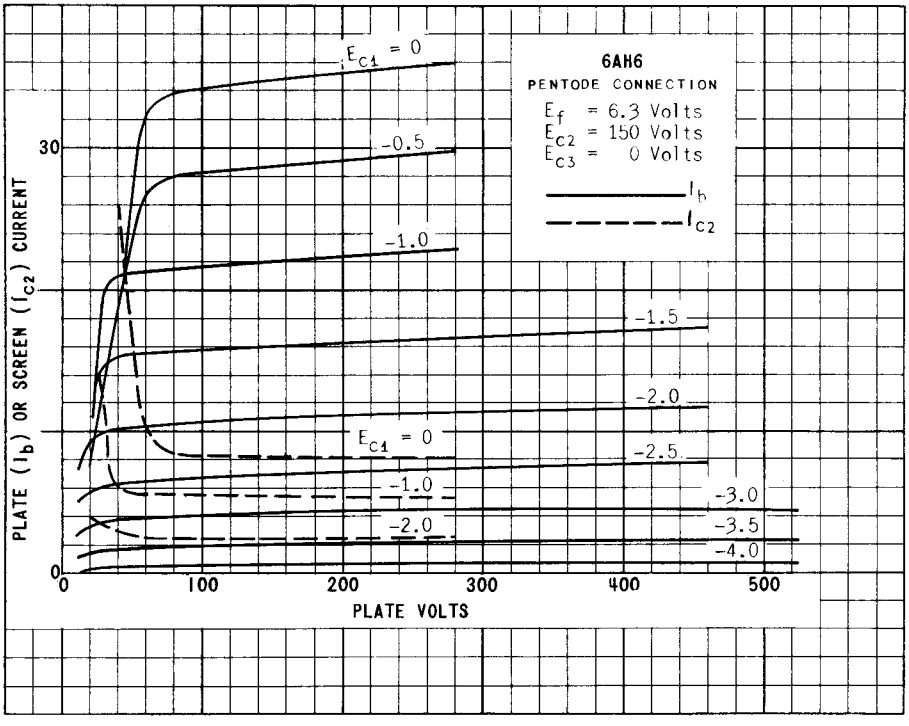
6AH6


6AH6
PENTODE CONNECTION
E_f = 6.3 Volts
E_{c2} = 150 Volts
E_{c3} = 0 Volts
I_b
I_{c2}
E_{c1} = 0
-0.5
-1.0
-1.5
-2.0
-2.5
-3.0
-3.5
-4.0
E_{c1} = 0
-1.0
-2.0
PLATE (I_b) OR SCREEN (I_{c2}) CURRENT
PLATE VOLTS
0
30
100
200
300
400
500